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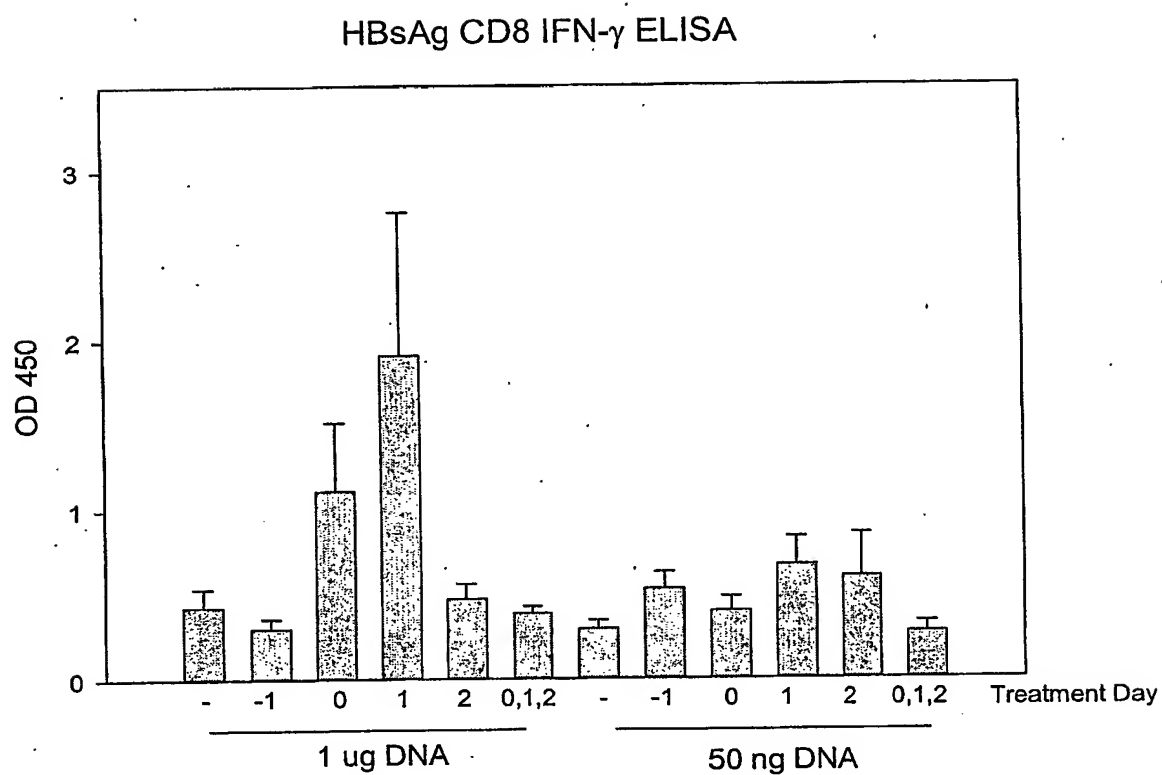


Figure 1

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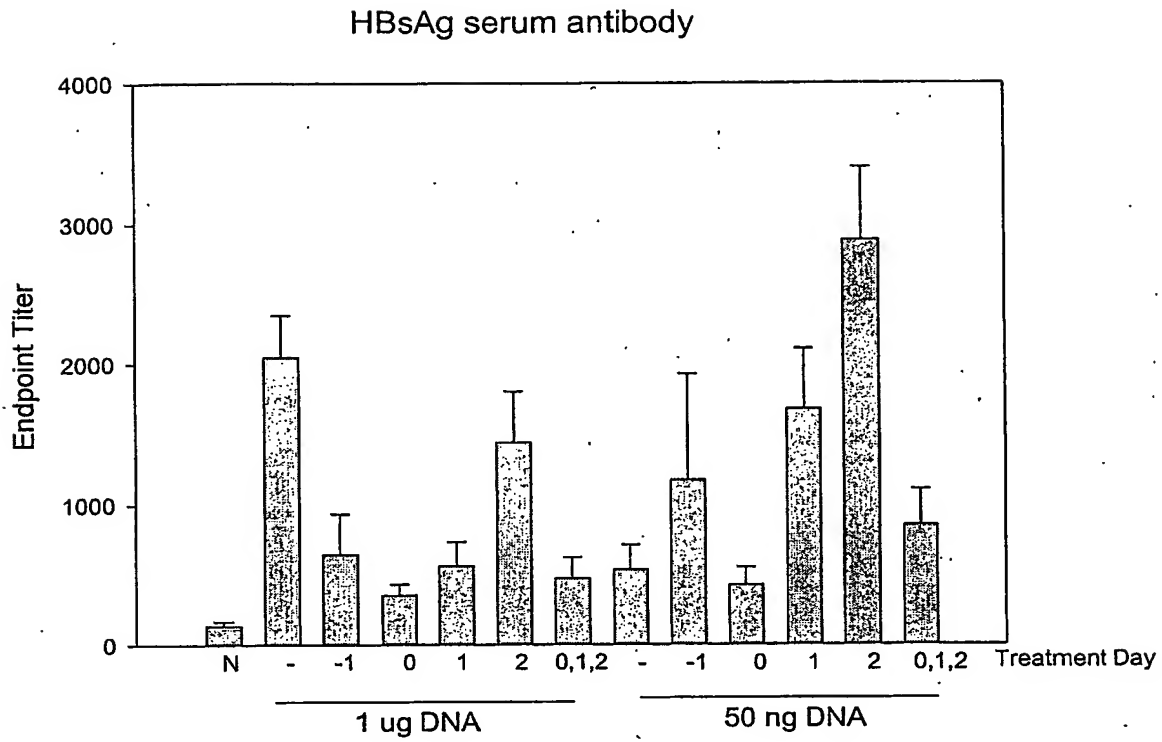
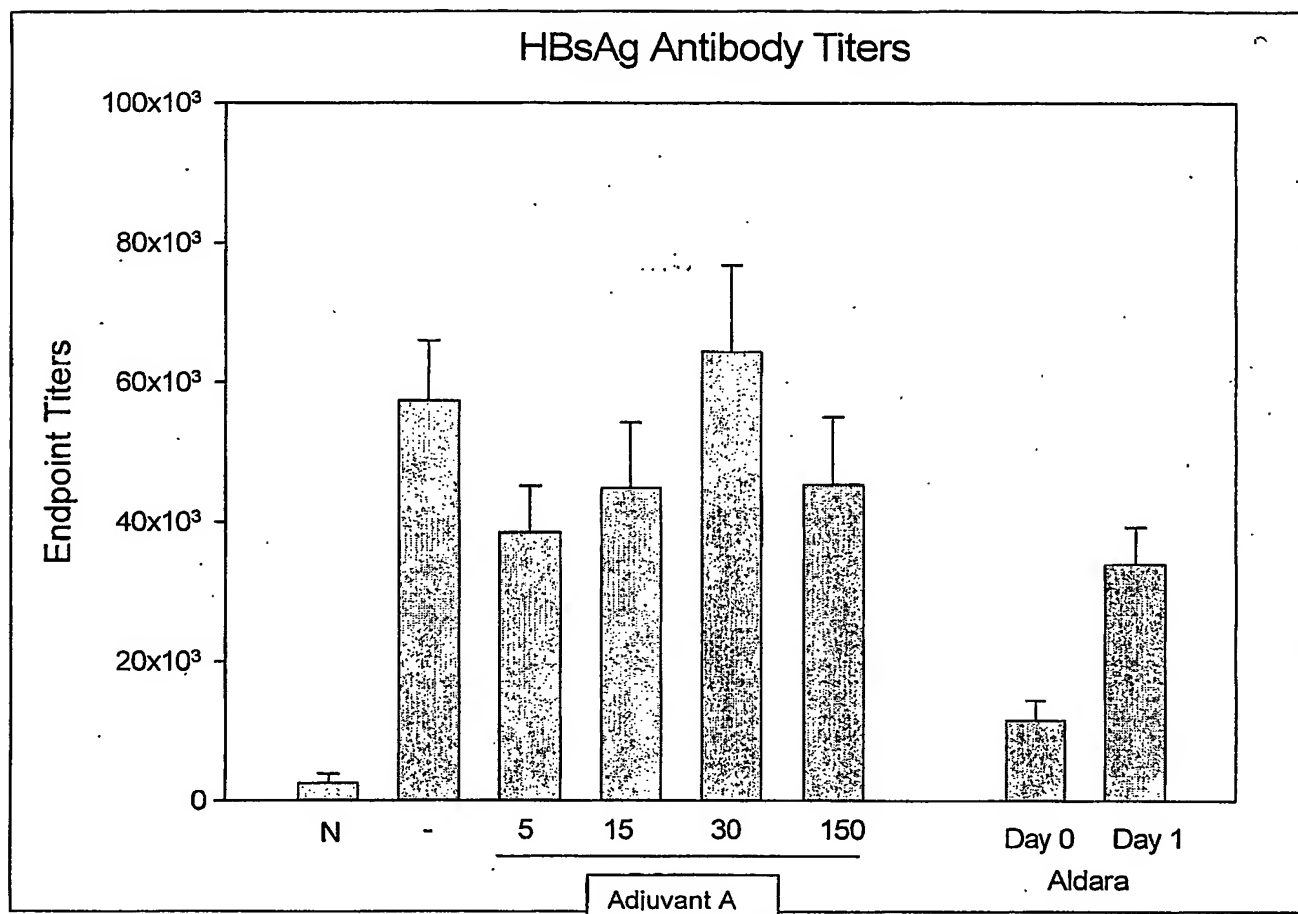


Figure 2

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**Figure 3**

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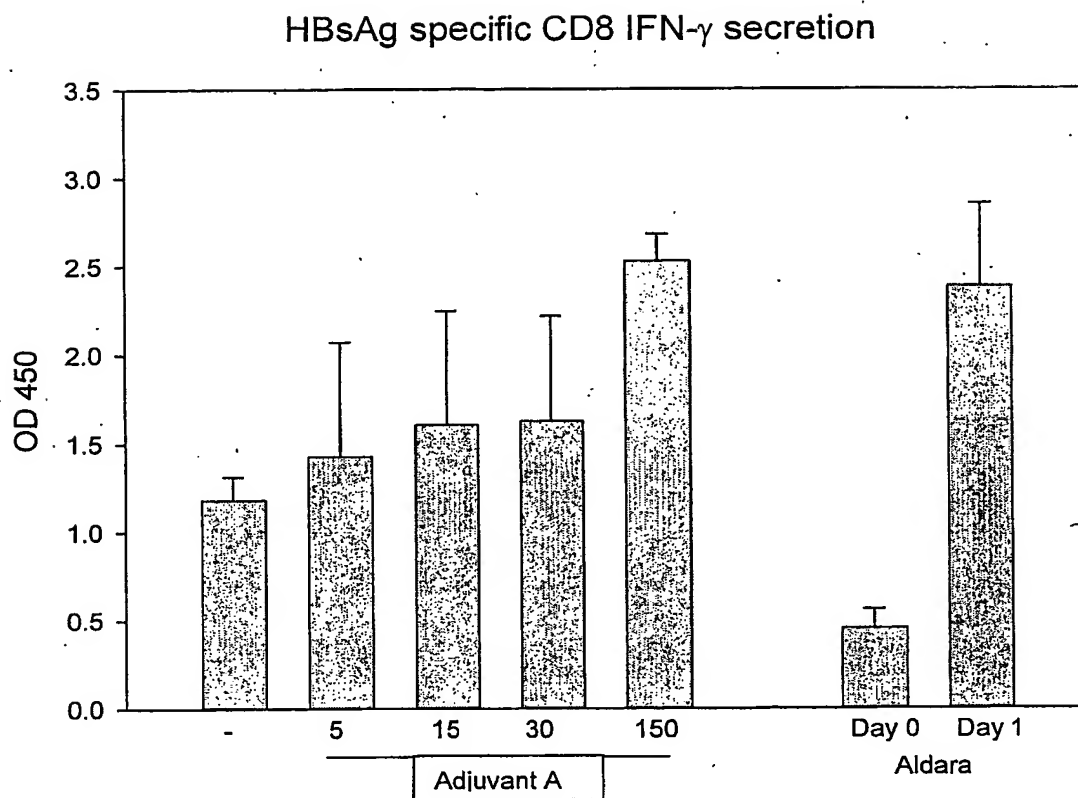


Figure 4

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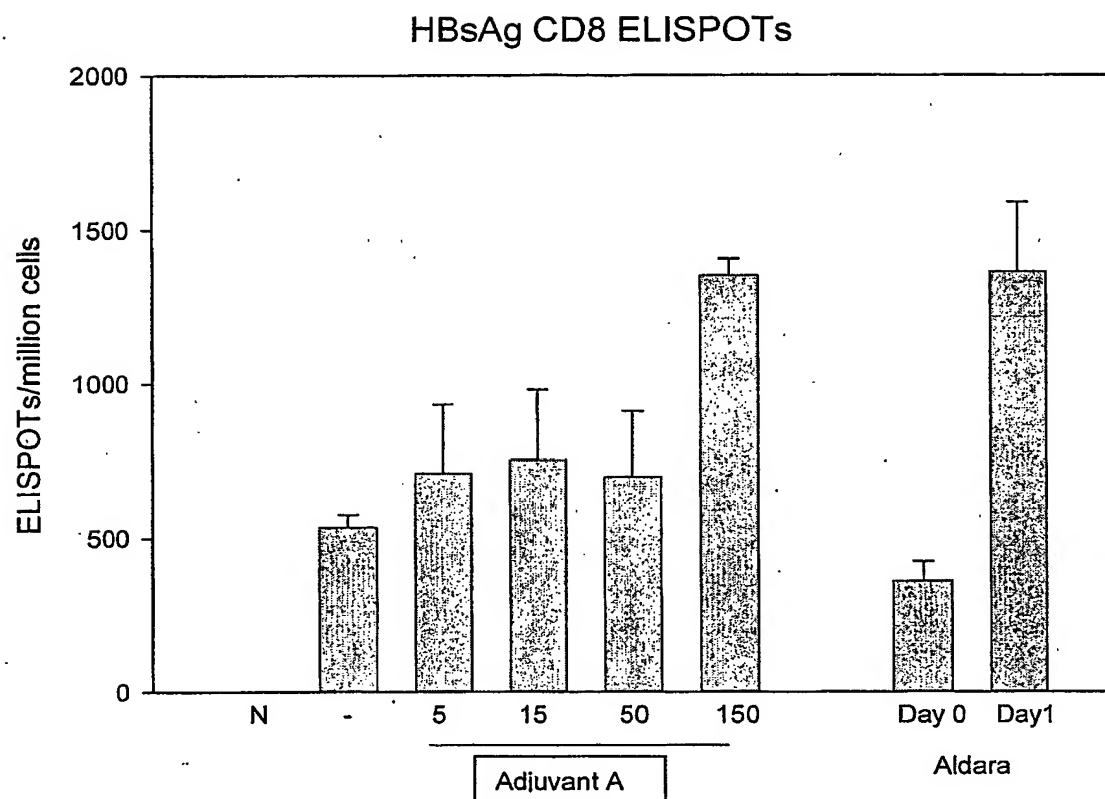


Figure 5

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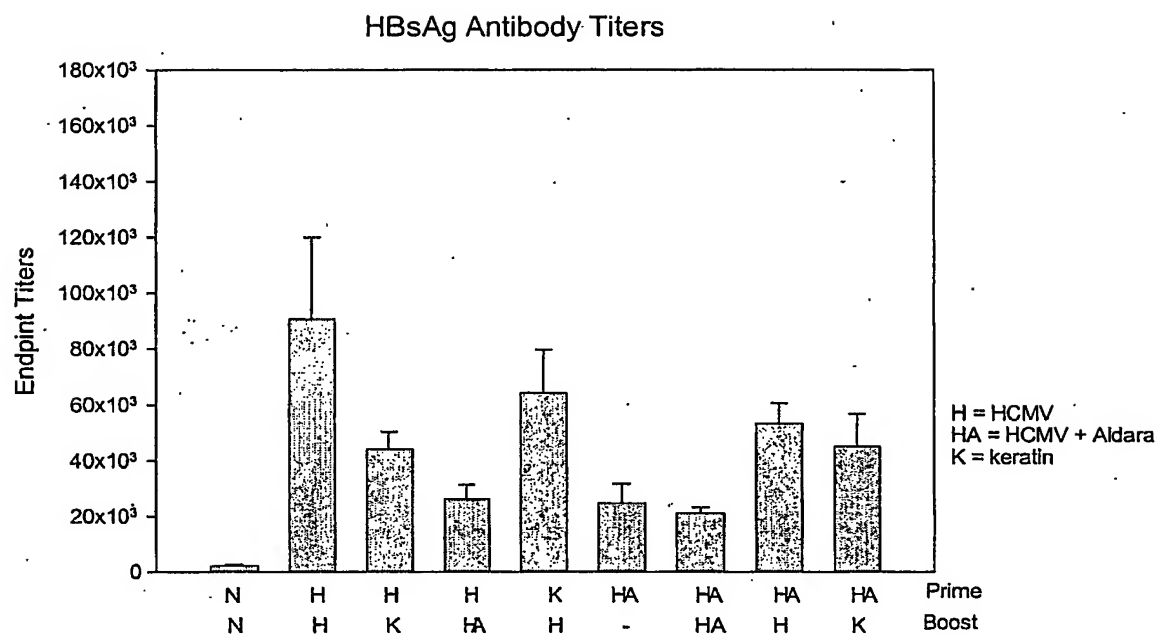


Figure 6

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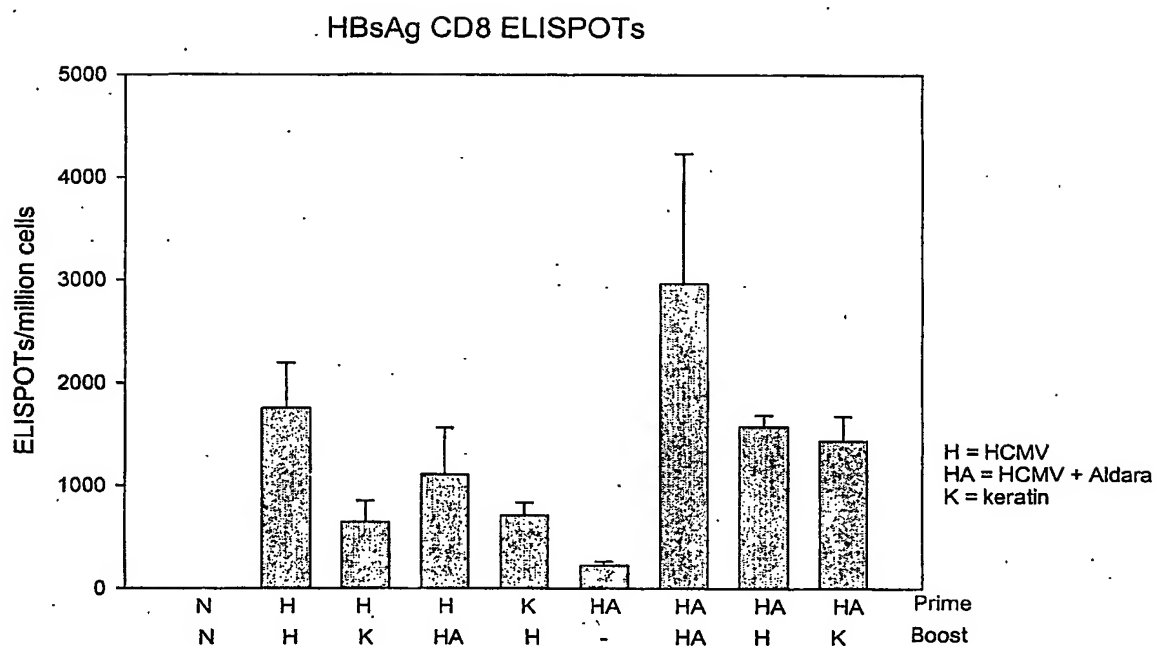


Figure 7

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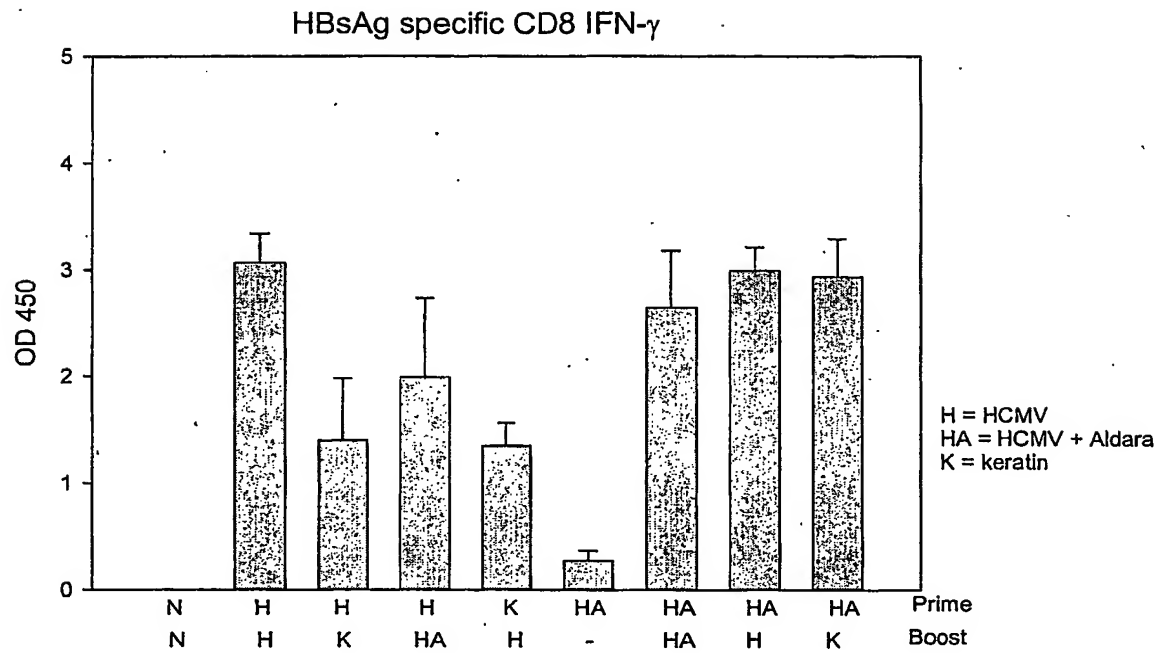


Figure 8

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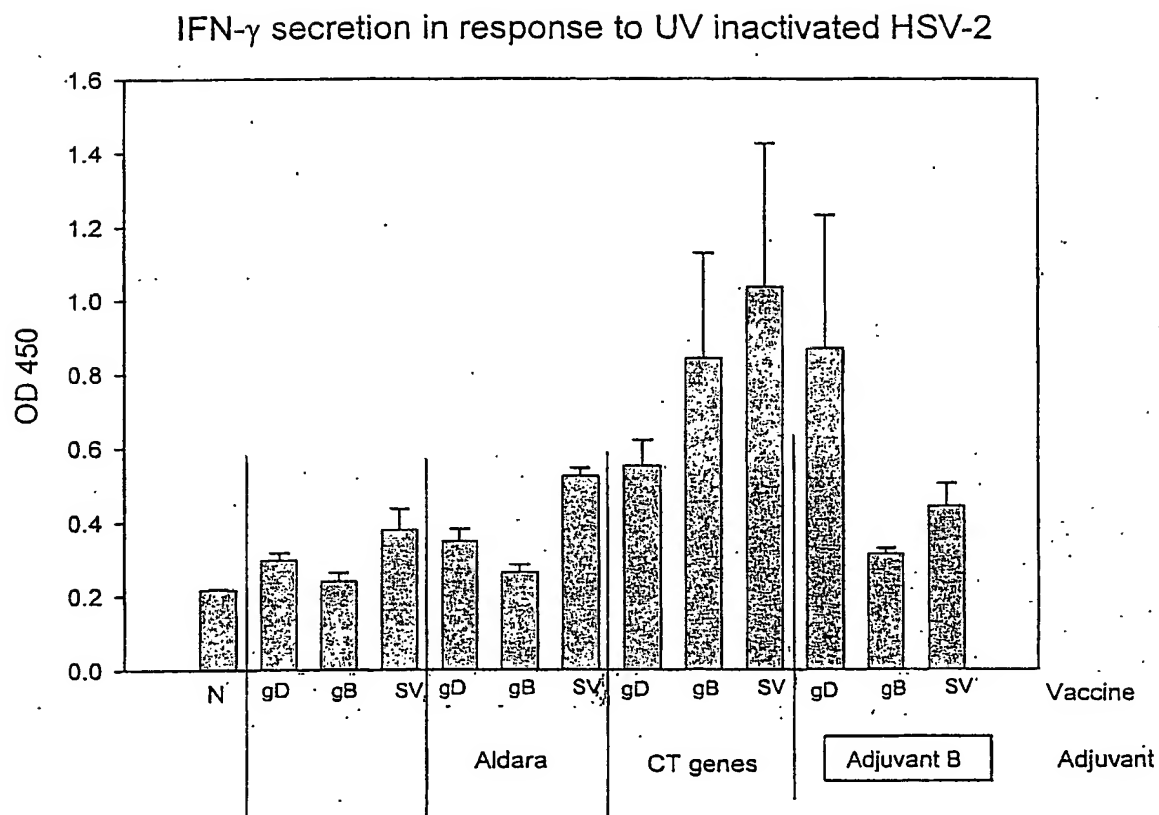


Figure 9

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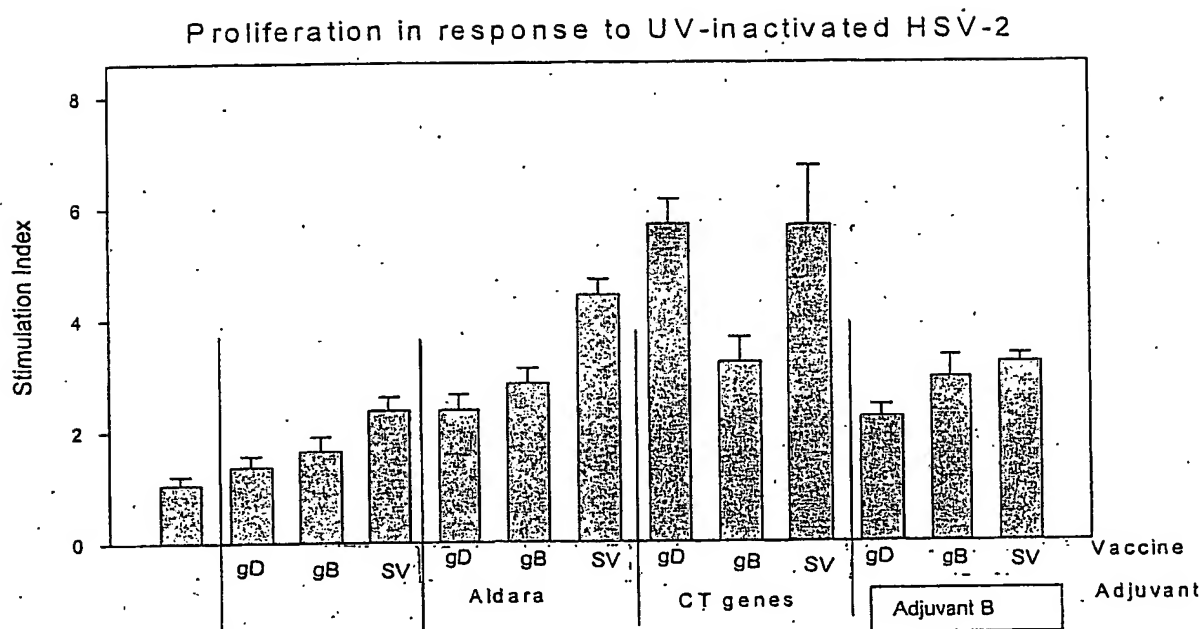


Figure 10

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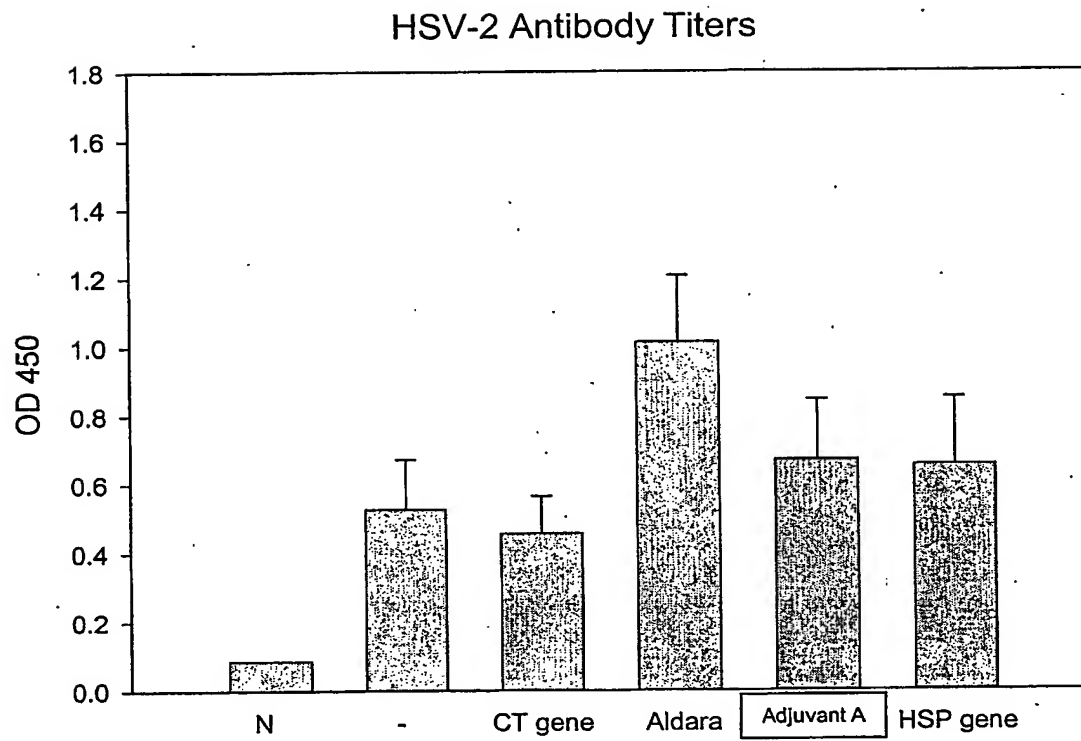


Figure 11

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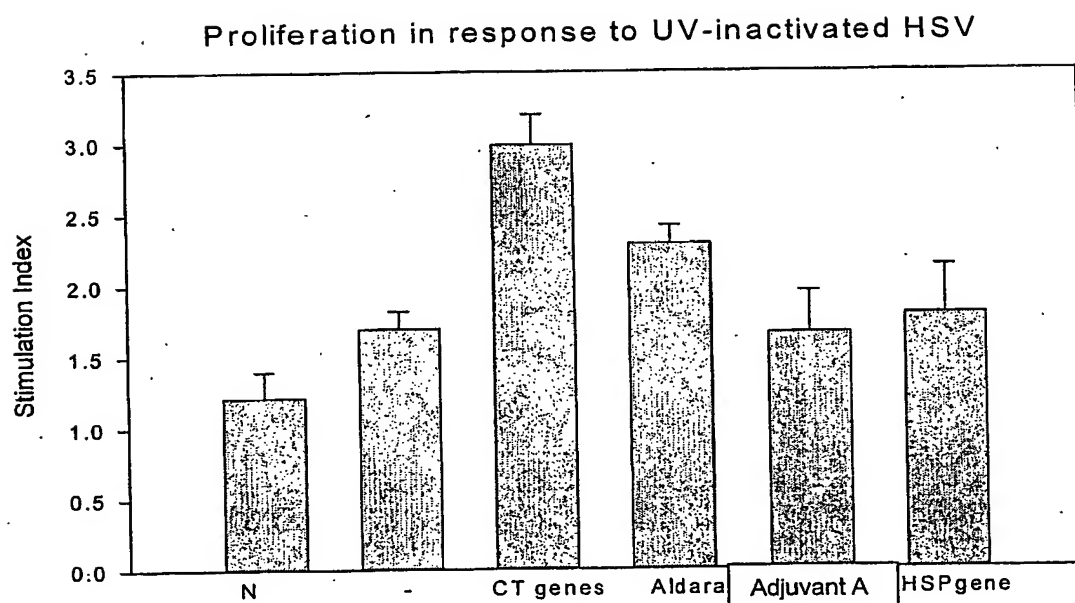


Figure 12

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ICP27 CD8 ELISPOTs

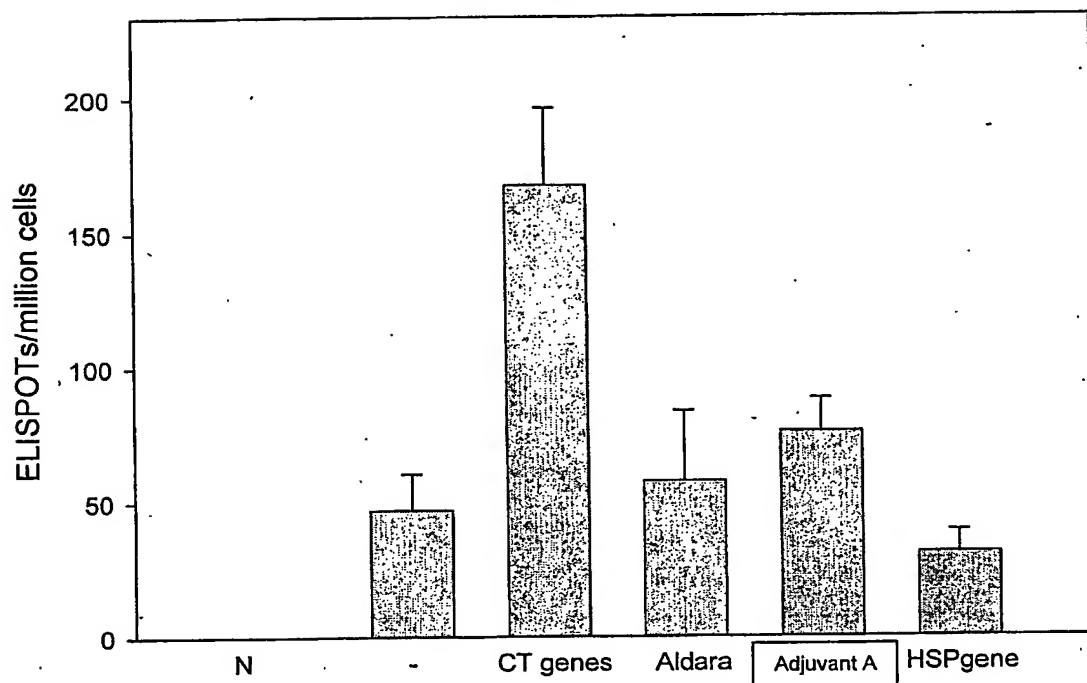


Figure 13

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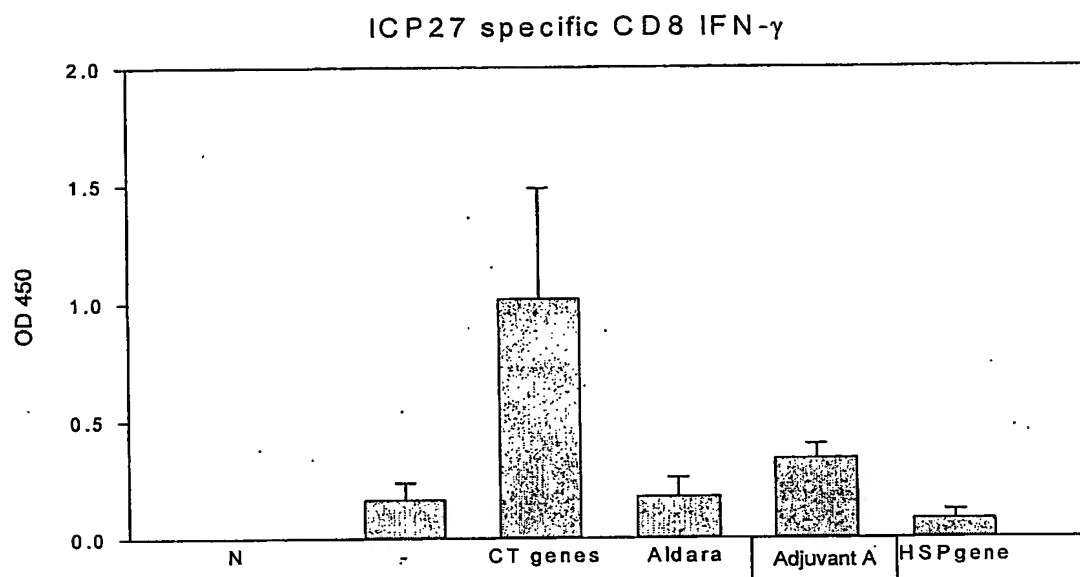


Figure 14

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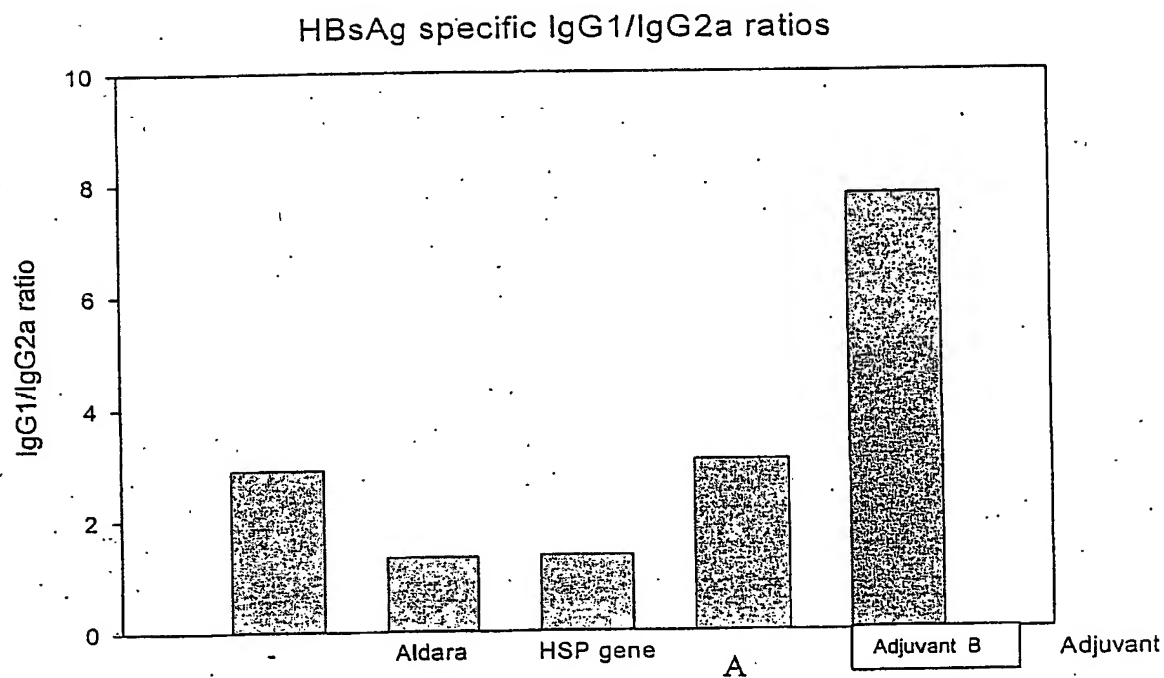


Figure 15

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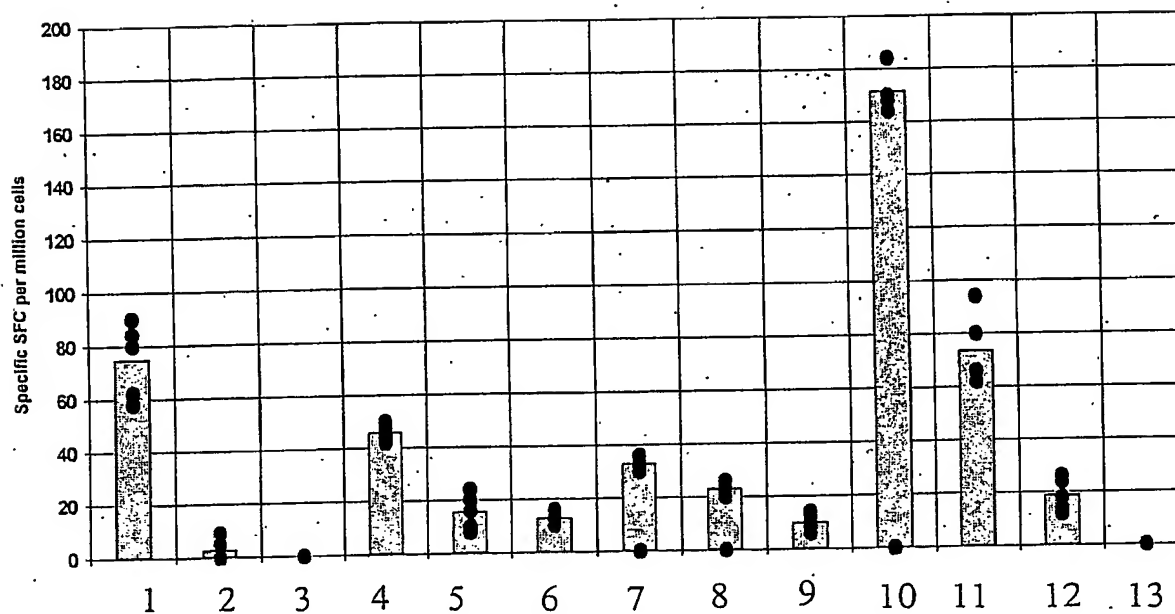


Figure 16

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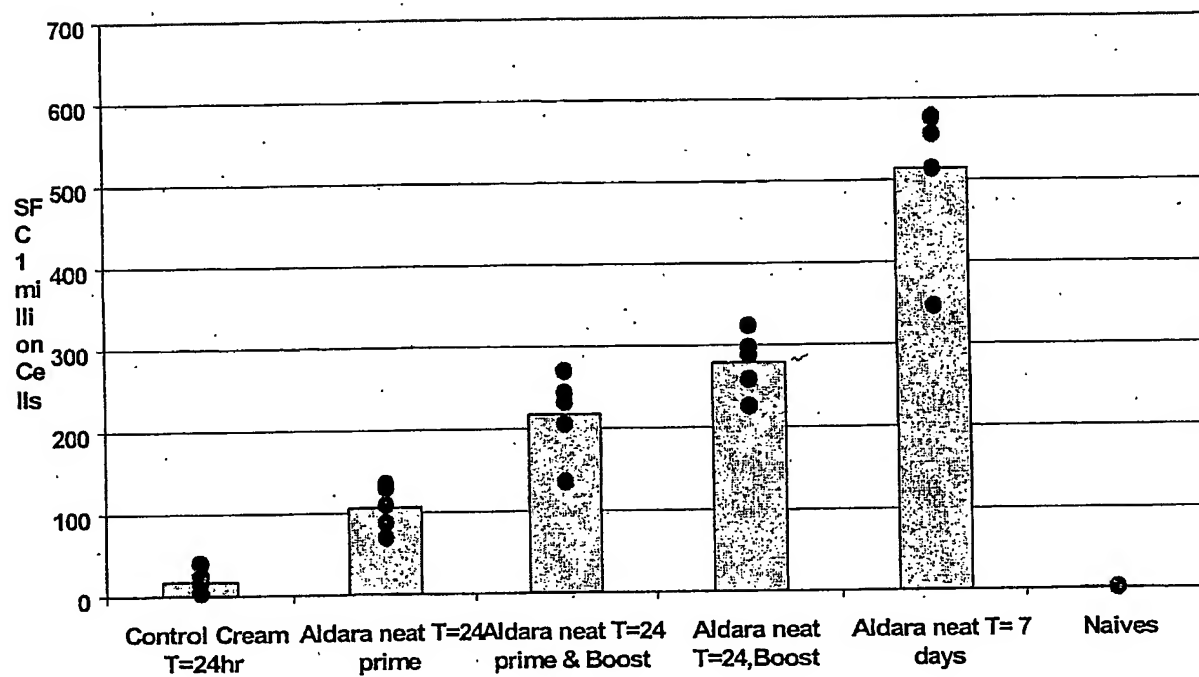
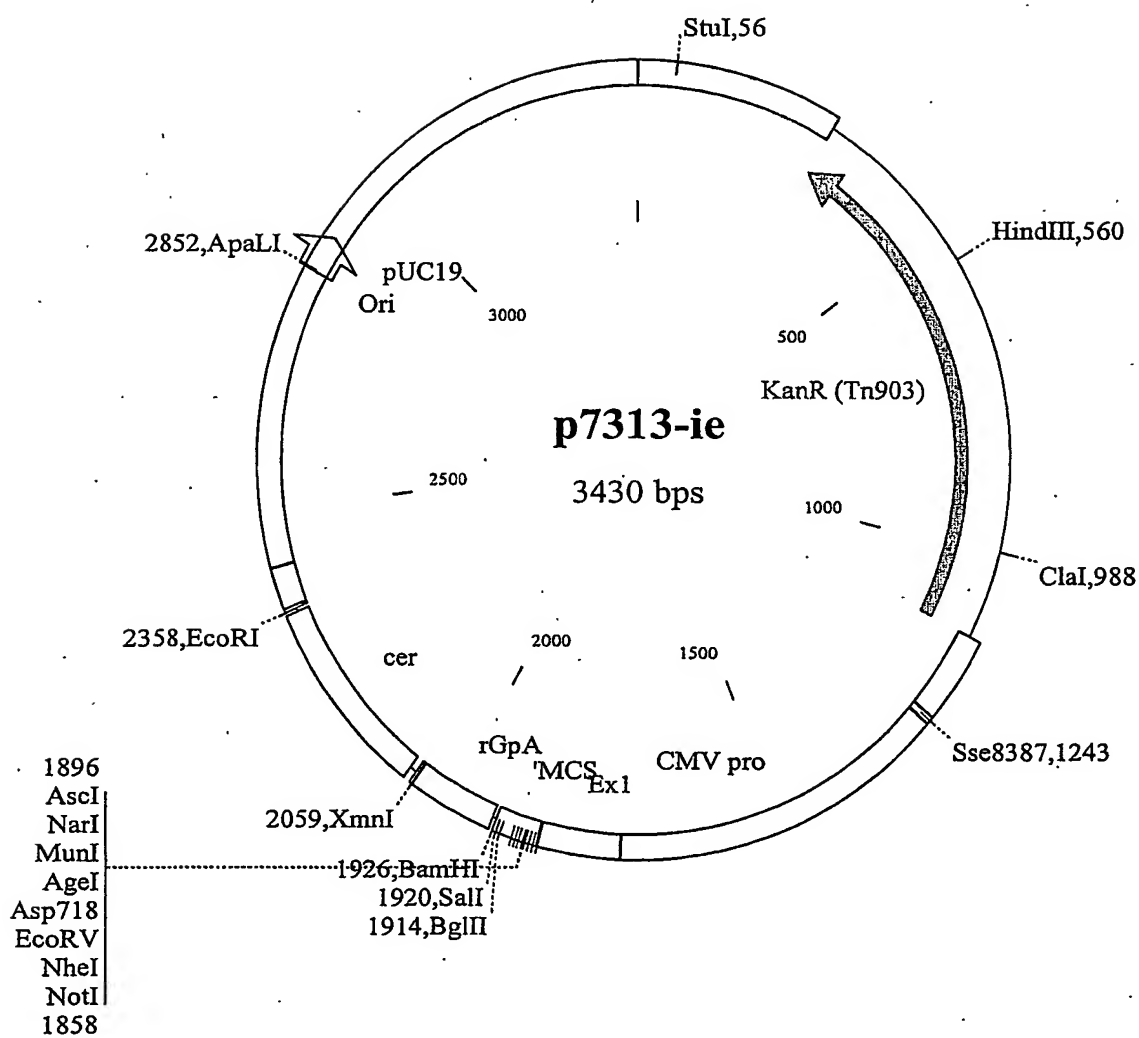


Figure 17

Figure 18



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Figure 19

Sequence of p55 gag insert in pGagOptrpr2

5 ATGGGTGCCCCGAGCTTCGGTACTGTCTGGTGGAGAGCTGGACAGATGGGAGAAAATTAGGCT
GCGCCCGGGAGGCAAAAAGAAATACAAGCTCAAGCATATCGTGTGGGCCTCGAGGGAGCTTG
AACGGTTTGGCGTGAACCCAGGCCTGCTGGAAACATCTGAGGGATGTCGCCAGATCCTGGGG
CAATTGCAGCCATCCCTCCAGACCGGGAGTGAAGAGCTGAGGTCCTTGATAACACAGTGGC
TACCCTCTACTGCGTACACCAGAGGATCGAGATTAAGGATACCAAGGAGGCCTTGACAAAA
10 TTGAGGAGGAGCAAAACAAGAGCAAGAAGAAGGCCAGCAGGCAGCTGCTGACACTGGGCAT
AGCAACCAGGTATCACAGAACTATCCTATTGTCCAAAACATTCAGGGCCAGATGGTTCATCA
GGCCATCAGCCCCCGGACGCTCAATGCCTGGGTGAAGGTTGTCTGAAGAGAAAGGCCCTTTTCTC
CTGAGGTTATCCCCATGTTCTCCGCTTTGAGTGAGGGGGCCACTCCTCAGGACCTCAATACA
ATGCTTAATACCGTGGGCGGCCATCAGGCCGCCATGCAAATGTTGAAGGAGACTATCAACGA
15 GGAGGCAGCCGAGTGGGACAGAGTGCATCCCGTCCACGCTGGGCCAATCGCGCCCGGACAGA
TGCGGGAGCCTCGCGGCTCTGACATTGCCGGCACCACCTCTACACTGCAAGAGCAAATCGGA
TGGATGACCAACAATCCTCCCATCCCAGTTGGAGAAATCTATAAACGGTGGATCATTCTCGG
TCTCAATAAAATTGTTAGAATGTACTCTCCGACATCCATCCTTGACATTAGACAGGGACCCA
AAGAGCCTTTTAGGGATTACGTGACCGGTTTTTATAAGACCCTGCGAGCAGAGCAGGCCTCT
20 CAGGAGGTCAAAAAGTGGATGACGGAGACACTCCTGGTACAGAACGCTAACCCCGACTGCAA
ACAATCTTGAAGGCACTAGGCCCGGCTGCCACCCTGGAAGAGATGATGACCGCCTGTCAGG
GAGTAGGCGGACCCGGACACAAAGCCAGAGTGTGGCCGAAGCCATGAGCCAGGTGACGAAC
TCCGCAACCATCATGATGCAGAGAGGGAATCTCCGCAATCAGCGGAAGATCGTGAAGTGTTT
CAATTGCGGCAAGGAGGGTCATACCGCCCGCAACTGTCTGGGCCCTTAGGAAGAAAGGGTGTT
25 GGAAGTGCGGCAAGGAGGGACACCAGATGAAAGACTGTACAGAACGACAGGCCAATTTTCTT
GGAAAGATTTGGCCGAGCTACAAGGGGAGACCTGGTAATTTCTGCAAAGCAGGCCCGAGCC
CACCGCCCCCCTGAGGAATCCTTCAGGTCCGGAGTGGAGACCACAACGCCTCCCCAAAAC
AGGAACCAATCGACAAGGAGCTGTACCCTTTAACTTCTCTGCGTTCTCTTTGGCAACGAC
CCGTCGTCTCAATAA
30
MGARASVLSG GELDRWEKIR LRPGGKKKYK LKHIVWASRE LERFAVNPGL
LETSEGCRQI LGQLQPSLQT GSEELRSLYN TVATLYCVHQ RIEIKDTKEA
LDKIEEEQNK SKKKAQQAAA DTGHSNQVSQ NYPIVQNIQG QMVHQAI SPR
TLNAWVKVVE EKAFSPEVIP MFSALSEGAT PQDLN TMLNT VGGHQAMQM
35 LKETINEEAA EWDRVHPVHA GPIAPGQMRE PRGSDIAGTT STLQEQIGWM
TNNPPIPVGE IYKRWIILGL NKIVRMYSPT SILDIRQGPKEPFRDYVDRF
YKTLRAEQAS QEVKNWMTET LLVQNANPDC KTIKALGPA ATLEEMMTAC
QGVGGPGHKA RVLAEAMSQV TNSATIMMQR GNFRNQRKIV KCFNCGKEGH
TARNCRAPRK KGCWKCGKEG HQMKDCTERQ ANFLGKIWPS YKGRPGNFLQ
40 SRPEPTAPPE ESFRSGVETT TPPQKQEPID KELYPLTSLR SLFGNDPSSQ

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Figure 20

Sequence of the p17/24trNEF insert in p17/24trNEF1

5 ATGGGTGCGAGAGCGTCAGTATTAAGCGGGGAGAATTAGATCGATGGGAAAAAATTCGGTT
AAGGCCAGGGGAAAGAAAAAATATAAATTAAAACATATAGTATGGGCAAGCAGGGAGCTAG
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CAGCTACAACCATCCCTTCAGACAGGATCAGAAGAACTTAGATCATTATATAATACAGTAGC
AACCCTCTATTGTGTGCATCAAAGGATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGA
10 TAGAGGAAGAGCAAAACAAAAGTAAGAAAAAAGCACAGCAAGCAGCAGCTGACACAGGACAC
AGCAATCAGGTCAGCCAAAATTACCCTATAGTGCAGAACATCCAGGGGCAAATGGTACATCA
GGCCATATCACCTAGAACTTTAAATGCATGGGTAAAAGTAGTAGAAGAGAAGGCTTTCAGCC
CAGAAGTGATACCCATGTTTTTCAGCATTATCAGAAGGAGCCACCCCAAGATTTAAACACC
ATGCTAAACACAGTGGGGGGACATCAAGCAGCCATGCAAATGTTAAAAGAGACCATCAATGA
15 GGAAGCTGCAGAATGGGATAGAGTGCATCCAGTGCATGCAGGGCCTATTGCACCAGGCCAGA
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TGGATGACAAATAATCCACCTATCCCAGTAGGAGAAATTTATAAAAGATGGATAATCCTGGG
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AAGAACCCTTTAGAGACTATGTAGACCGGTTCTATAAACTCTAAGAGCCGAGCAAGCTTCA
20 CAGGAGGTAAAAAATTGGATGACAGAAACCTTGTTGGTCCAAAATGCGAACCCAGATTGTAA
GACTATTTTTAAAAGCATTGGGACCAGCGGCTACACTAGAAGAAATGATGACAGCATGTCAGG
GAGTAGGAGGACCCGGCCATAAGGCAAGAGTTTTGGTGGGTTTTCCAGTCACACCTCAGGTA
CCTTTAAGACCAATGACTTACAAGGCAGCTGTAGATCTTAGCCACTTTTTAAAAGAAAAGGG
GGGACTGGAAGGGCTAATTCCTCCCAAAGAAGACAAGATATCCTTGATCTGTGGATCTACC
25 ACACACAAGGCTACTTCCCTGATTGGCAGAACTACACACCAGGGCCAGGGGTGAGATATCCA
CTGACCTTTGGATGGTGCTACAAGCTAGTACCAGTTGAGCCAGATAAGGTAGAAGAGGCCAA
TAAAGGAGAGAACACCAGCTTGTTACACCCTGTGAGCCTGCATGGGATGGATGACCCGGAGA
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MGARASVLSG GELDRWEKIR LRPGGKKKYK LKHIVWASRE LERFAVNPGL
LETSEGCRQI LGQLQPSLQT GSEELRSLYN TVATLYCVHQ RIEIKDTKEA
LDKIEEEEQNK SKKKAQQAAA DTGHSNQVSQ NYPIVQNIQ QMVHQAI SPR
TLNAWVKVVE EKAFSPEVIP MFSALSEGAT PQDLNMTMLNT VGGHQAMQM
35 LKETINEEAA EWDRVHPVHA GPIAPGQMRE PRGSDIAGTT STLQEQIGWM
TNNPPIPVGE IYKRWIILGL NKIVRMYSP SILDIRQGPK EPFRDYVDRF
YKTLRAEQAS QEVKNWMTET LLVQNPANPD KTIKALGPA ATLEEMMTAC
QGVGGPGHKA RVLVGFVPTP QVPLRPMTYK AAVDLSHFLK EKGGLLEGLIH
SQRRQDILDW WIYHTQGYFP DWQNYTPGPG VRYPLTFGWC YKLVPVEPDK
40 VEEANKGENT SLLHPVSLHG MDDPEREVLE WRFDShLAFH HVARELHPEY
FKNC*

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Figure 21

Sequence of the p17/24opt/trNef insert in p17/24opt/trNef1

5 ATGGGTGCCCCGAGCTTCGGTACTGTCTGGTGGAGAGCTGGACAGATGGGAGAAAATTAGGCT
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AACGGTTTGCCGTGAACCCAGGCCTGCTGGAAACATCTGAGGGATGTCGCCAGATCCTGGGG
CAATTGCAGCCATCCCTCCAGACCGGGAGTGAAGAGCTGAGGTCCTTGTATAACACAGTGGC
TACCTCTACTGCGTACACCAGAGGATCGAGATTAAGGATACCAAGGAGGCCTTGGACAAAA
10 TTGAGGAGGAGCAAAACAAGAGCAAGAAGAAGGCCAGCAGGCAGCTGCTGACACTGGGCAT
AGCAACCAGGTATCACAGAACTATCCTATTGTCCAAAACATTCAGGGCCAGATGGTTCATCA
GGCCATCAGCCCCCGGACGCTCAATGCCTGGGTGAAGGTTGTCGAAGAGAAGGCCTTTTCTC
CTGAGGTTATCCCCATGTTCTCCGCTTTGAGTGAGGGGGCCACTCCTCAGGACCTCAATACA
ATGCTTAATACCGTGGGCGGCCATCAGGCCGCCATGCAAATGTTGAAGGAGACTATCAACGA
15 GGAGGCAGCCGAGTGGGACAGAGTGCATCCCGTCCACGCTGGCCCAATCGCGCCCGGACAGA
TGCGGGAGCCTCGCGGCTCTGACATTGCCGGCACCACTCTACACTGCAAGAGCAAATCGGA
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TCTCAATAAAATTTGTTAGAATGTACTCTCCGACATCCATCCTTGACATTAGACAGGGACCCA
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AACAACTCTGAAGGCACTAGGCCCGGCTGCCACCCTGGAAGAGATGATGACCGCCTGTCAGG
GAGTAGGCGGACCCGGACACAAAGCCAGAGTGTTGATGGTGGGTTTTCCAGTCACACCTCAG
GTACCTTTAAGACCAATGACTTACAAGGCAGCTGTAGATCTTAGCCACTTTTAAAGAAAA
GGGGGGACTGGAAGGGCTAATTCACCTCCCAAAGAAGACAAGATATCCTTGATCTGTGGATCT
25 ACCACACACAAGGCTACTTCCCTGATTGGCAGAACTACACACCAGGGCCAGGGGTGAGATAT
CCACTGACCTTTGGATGGTGCTACAAGCTAGTACCAGTTGAGCCAGATAAGGTAGAAGAGGC
CAATAAAGGAGAGAACACCAGCTTGTTACACCCTGTGAGCCTGCATGGGATGGATGACCCGG
AGAGAGAAGTGTTAGAGTGGAGGTTTGACAGCCACCTAGCATTTTCATCACGTGGCCCGAGAG
CTGCATCCGGAGTACTTCAAGAACTGCTGA
30

MGARASVLSG GELDRWEKIR LRPGGKKKYK LKHIVWASRE LERFAVNPGL
LETSEGCRQI LGQLQPSLQT GSEELRSLYN TVATLYCVHQ RIEIKDTKEA
LDKIEEEQNK SKKKAQQAAA DTGHSNQVSQ NYPIVQNIQG QMVHQAI SPR
TLNAWVKVVE EKAFSPEVIP MFSALSEGAT PQDLNMLNT VGGHQAMQM
35 LKETINEEAA EWDRVHPVHA GPIAPGQMRE PRGSDIAGTT STLQEQIGWM
TNNPPIPVGE IYKRWIILGL NKIVRMYSPT SILDIRQGPK EPFRDYVDRF
YKTLRAEQAS QEVKNWMTET LLVQANPDC KTIKALGPA ATLEEMMTAC
QGVGGPGHKA RVL MVGF PVT PQVPLRPMTY KAAVDLSHFL KEKGGLEGLI
HSQRRQDILD LWIYHTQGYF PDWQNYTPGP GVRYP LTFGW CYKLVPVEPD
40 KVEEANKGEN TSL LHPVSLH GMDDPEREVL EWRFD SHLAF HHVARELHPE
YFKNC*

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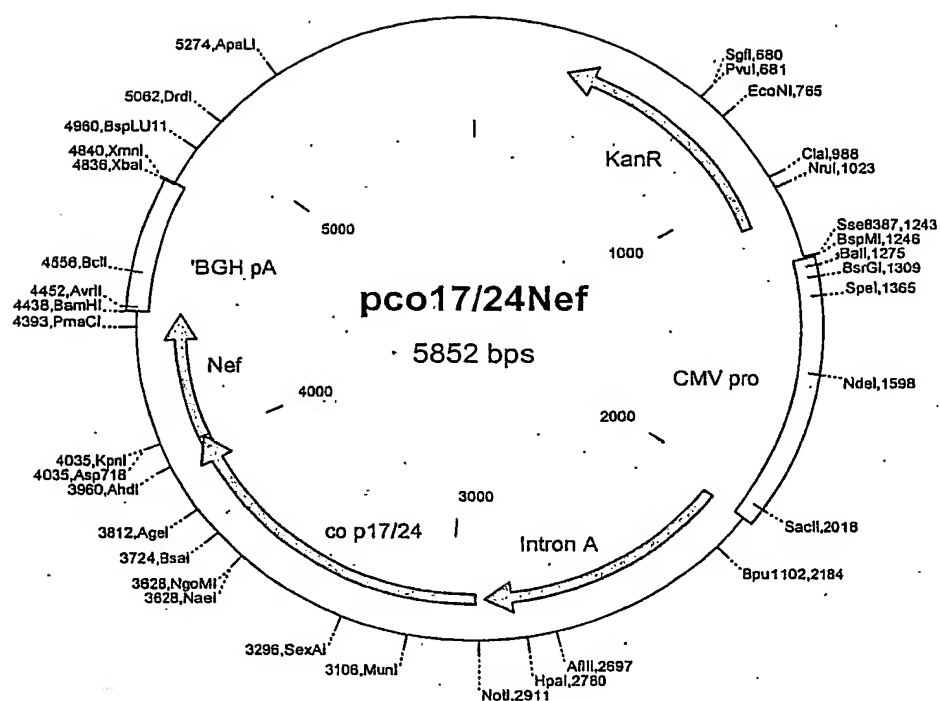


Figure 22

Sequence of RT insert of p7077-RT3:

5

10

15

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 AGATGGAGAAAGAGGGCAAGATCAGCAAGATCGGGCCTGAGAACCCATACAACACCCCGTG
 TTTGCCATCAAGAAGAAGGACAGCACCAAGTGGCGCAAGCTGGTGGATTTCGGGGAGCTGAA
 TAAGCGGACCCAGGATTTCTGGGAGGTCCAGCTGGGCATCCCCCATCCGGCCCGGCTGAAGA
 AGAAGAAGAGCGTGACCGTGCTGGACGTGGGCGACGCTTACTTCAGCGTCCCTCTGGACGAG
 GACTTTAGAAAGTACACCGCCTTTACCATCCCATCTATCAACAACGAGACCCCTGGCATCAG
 ATATCAGTACAACGTCCTCCCCAGGGCTGGAAGGGCTCTCCCGCCATTTTCCAGAGCTCCA
 TGACCAAGATCCTGGAGCCGTTTCGGAAGCAGAACCCCGATATCGTCATCTACCAGTACATG
 GACGACCTGTACGTGGGCTCTGACCTGGAATCGGGCAGCATCGCACGAAGATTGAGGAGCT
 GAGGCAGCATCTGCTGAGATGGGGCCTGACCACTCCGGACAAGAAGCATCAGAAGGAGCCGC
 CATTCTGTGGATGGGCTACGAGCTCCATCCCGACAAGTGGACCGTGCAGCCTATCGTCCTC
 CCCGAGAAGGACAGCTGGACCGTGAACGACATCCAGAAGCTGGTGGGCAAGCTCAACTGGGC

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TAGCCAGATCTATCCCGGGATCAAGGTGCGCCAGCTCTGCAAGCTGCTGCGCGGCACCAAGG
CCCTGACCGAGGTGATTCCCCTCACGGAGGAAGCCGAGCTCGAGCTGGCTGAGAACCGGGAG
ATCCTGAAGGAGCCCGTGCACGGCGTGTACTATGACCCCTCCAAGGACCTGATCGCCGAAAT
CCAGAAGCAGGGCCAGGGGCAGTGGACATAACCAGATTTACCAGGAGCCTTTCAAGAACCTCA
5 AGACCGGCAAGTACGCCC GCATGAGGGGCGCCACACCAACGATGTCAAGCAGCTGACCGAG
GCCGTCCAGAAGATCACGACCGAGTCCATCGTGATCTGGGGGAAGACACCCAAGTTCAAGCT
GCCTATCCAGAAGGAGACCTGGGAGACGTGGTGGACCGAATATTGGCAGGCCACCTGGATTC
CCGAGTGGGAGTTCGTGAATACACCTCCTCTGGTGAAGCTGTGGTACCAGCTCGAGAAGGAG
CCCATCGTGGGCGCGGAGACATTCTACGTGGACGGCGCGGCCAACCGCGAAACAAAGCTCGG
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ACCAGAAGACGGAGCTGCAGGCCATCTATCTCGCTCTCCAGGACTCCGGCCTGGAGGTGAAC
ATCGTGACGGACAGCCAGTACGCGCTGGGCATTATTACAGGCCAGCCGGACCAAGTCCGAGAG
CGAACTGGTGAACCAGATTATCGAGCAGCTGATCAAGAAAGAGAAGGTCTACCTCGCCTGGG
TCCCGGCCCATAGGGCATTGGCGGCAACGAGCAGGTGACAAGCTGGTGAGTGCGGGGATT
15 AGAAAGGTGCTGTAA

MGPISPIETV SVKLKPGMDG PKVKQWPLTE EKI KALVEIC TEMEKEGKIS
KIGPENPYNT PVFAIKKKDS TKWRKLVDFR ELNKRTQDFW EVQLGIPHPA
GLKKKKSVTV LDVGDAYFSV PLDEDFRKYT AFTIPSINNE TPGIRYQYNV
20 LPQGWKGSPA IFQSSMTKIL EPFRKQNPDI VIYQYMDDL Y VGSDLEIGQH
RTKIEELRQH LLRWGLTTPD KKHQKEPPFL WMGYELHPDK WTVQPIVLPE
KDSWTVNDIQ KLVGKLNWAS QIYPGIKVRQ LCKLLRGTKA LTEVIPLTEE
AELELAENRE ILKEPVHGVY YDPSKDLIAE IQKQGQGQWT YQIYQEPFKN
LKTGKYARMR GAHTNDVKQL TEAVQKITTE SIVIWGKTPK FKLPIQKETW
25 ETWWTEYWQA TWIPEWEFVN TPPLVKLWYQ LEKEPIVGAE TFYVDGAANR
ETKLKGAGYV TNRGRQKVVT LTDTTNQKTE LQAIYLALQD SGLEVNIVTD
SQYALGIIQA QPDQSESELV NQIIEQLIKK EKVYLAWVPA HKGIGGNEQV
DKLVSAGIRK VL*

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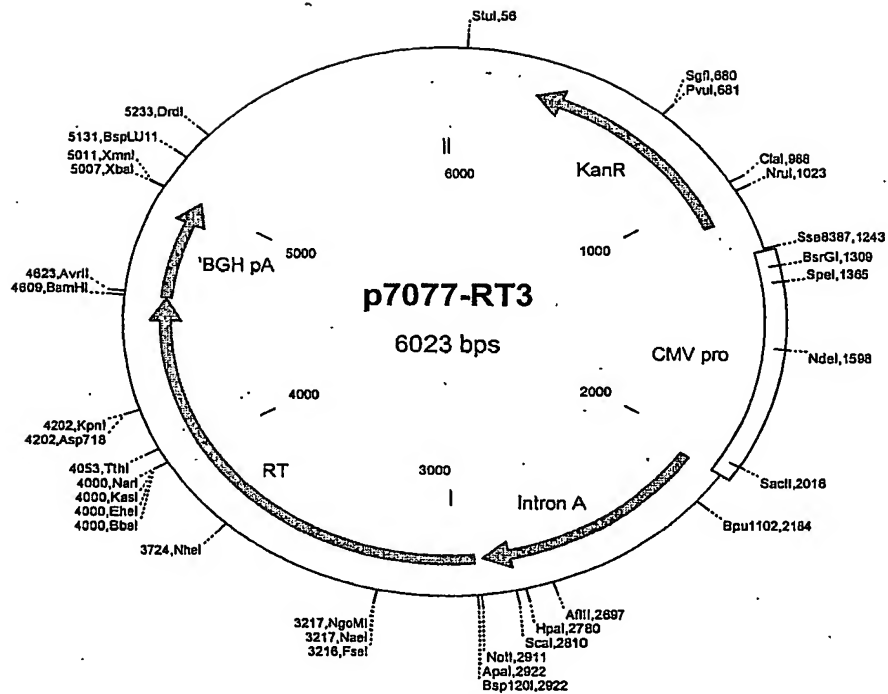


Figure 23

Sequence of the coding insert in p73i-RT3:

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 AGATGGAGAAAGAGGGCAAGATCAGCAAGATCGGGCCTGAGAACCATAACAACACCCCCGTG
 TTTGCCATCAAGAAGAAGACAGCACCAAGTGGCGCAAGCTGGTGGATTTCCGGGAGCTGAA
 TAAGCGGACCCAGGATTTCTGGGAGGTCCAGCTGGGCATCCCCCATCCGGCCGGCCTGAAGA
 10 AGAAGAAGAGCGTGACCGTGCTGGACGTGGGCGACGCTTACTTCAGCGTCCCTCTGGACGAG
 GACTTTAGAAAGTACACCGCCTTTACCATCCCATCTATCAACAACGAGACCCCTGGCATCAG
 ATATCAGTACAACGTCCTCCCCAGGGCTGGAAGGGCTCTCCCGCCATTTTCCAGAGCTCCA
 TGACCAAGATCCTGGAGCCGTTTCGGAAGCAGAACCCCGATATCGTCATCTACCAGTACATG
 GACGACCTGTACGTGGGCTCTGACCTGGAATCGGGCAGCATCGCACGAAGATTGAGGAGCT
 15 GAGGCAGCATCTGCTGAGATGGGGCCTGACCACTCCGGACAAGAAGCATCAGAAGGAGCCGC
 CATTCTGTGGATGGGCTACGAGCTCCATCCCGACAAGTGGACCGTGACGCTATCGTCTCTC
 CCCGAGAAGGACAGCTGGACCGTGAACGACATCCAGAAGCTGGTGGGCAAGCTCAACTGGGC
 TAGCCAGATCTATCCCGGGATCAAGGTGCGCCAGCTCTGCAAGCTGCTGCGCGGCACCAAGG
 CCCTGACCGAGGTGATTTCCCTCACGGAGGAAGCCGAGCTCGAGCTGGCTGAGAACCGGGAG
 20 ATCCTGAAGGAGCCCGTGACGGCGTGTACTATGACCCCTCCAAGGACCTGATCGCCGAAAT

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CAGCTGACCGAGGCCGTCAGAAAGATCACGACCGAGTCCATCGTGATCTGGGGGAAGACACCCAAGTTC
 AAGCTGCCATATCCAGAAGGAGACCTGGGAGACGTGGTGGACCGAATATTGGCAGGCCACCTGGATTCCC
 GAGTGGGAGTTCTGTGAATACACCTCCTCTGGTGAAGCTGTGGTACCAGCTCGAGAAGGAGCCCCATCGTG
 GCGCGGAGACATTCTACGTGGACGGCGCGGCCAACCGCGAAACAAAGCTCGGGAA
 5 GGCCGGGTACGTCACCAACCGGGGCCGAGAGGTCTGTCACCTGACCGACACCACCAACCAGAAGAC
 GGAGCTGCAGGCCATCTATCTCGCTCTCCAGGACTCCGGCCTGGAGGTGAACATCGTGACGGACAGCCA
 GTACGCGCTGGGCATTATTCAGGCCAGCCGACAGTCCGAGAGCGAACTGGTGAACCAGATTATCGA
 GCAGCTGATCAAGAAAGAGAAGGTCTACCTCGCCTGGGTCCCGGCCATAAGGGCATTGGCGGCAACGA
 GCAGGTCGACAAGCTGGTGAAGTGCAGGGATTAGAAAGGTGCTGTAA

10

MGPISPIETV SYKLKPGMDG PKVKQWPLTE EKIKALVEIC TEMEKEGKIS
 KIGPENPYNT PVFAIKKDS TKWRKLVDFR ELNKRQDFW EVQLGIPHPA
 GLKKKKSSTV LDVGDAYFSV PLDEDFRKYT AFTIPSINNE TPGIRYQYNV
 LPQGWKGSPA IFQSSMTKIL EPFRKQNPDI VIYQYMDDLY VGSLEIGQH
 15 RTKIEELRQH LLRWGLTPD KKHQKEPPFL WMGYELHPDK WTVQPIVLPE
 KDSWTVNDIQ KLVGKLNWAS QIYPGIKVRQ LCKLLRGTKA LTEVIPLTEE
 AELELAENRE ILKEPVHGVY YDPSKDLIAE IQKQGQGWY YQIYQEPFKN
 LKTGKYARMR GAHTNDVKQL TEAVQKITTE SIVIWGKTPK FKLPIQKETW
 ETWTEYWQA TWIPEWEFVN TPPLVKLWYQ LEKEPIVGAE TFYVDGAANR
 20 ETKLGKAGYV TNRGRQKVV LTDTTNQKTE LQAIYLALQD SGLEVNIVTD
 SQYALGIIQA QPDQSESELV NQIIEQLIKK EKVYLAWVPA HKGIGGNEQV
 DKLVSAIRK VL*

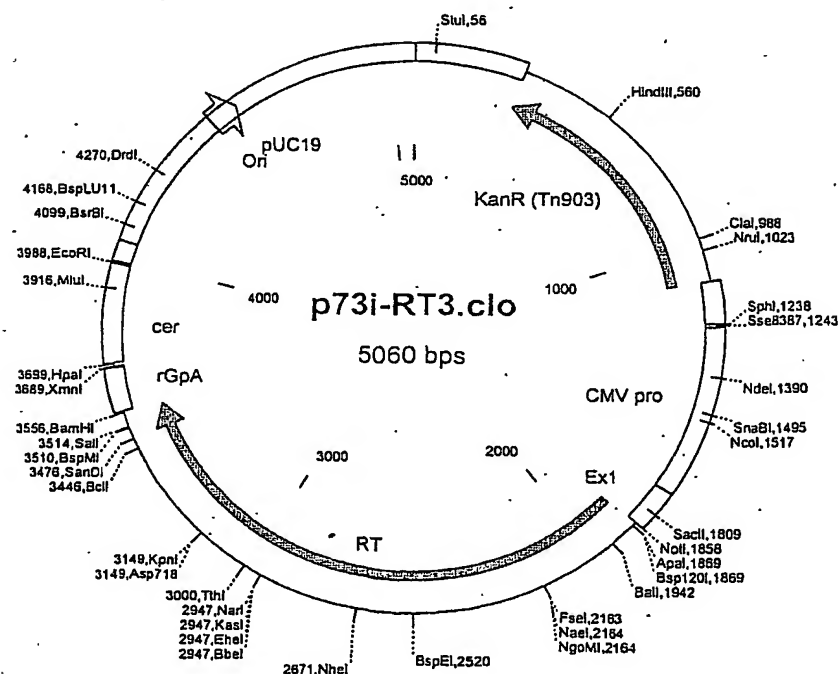


Figure 24
Responses to Gag peptide measured using IFN-gamma ELIspot at 5 days post-boost

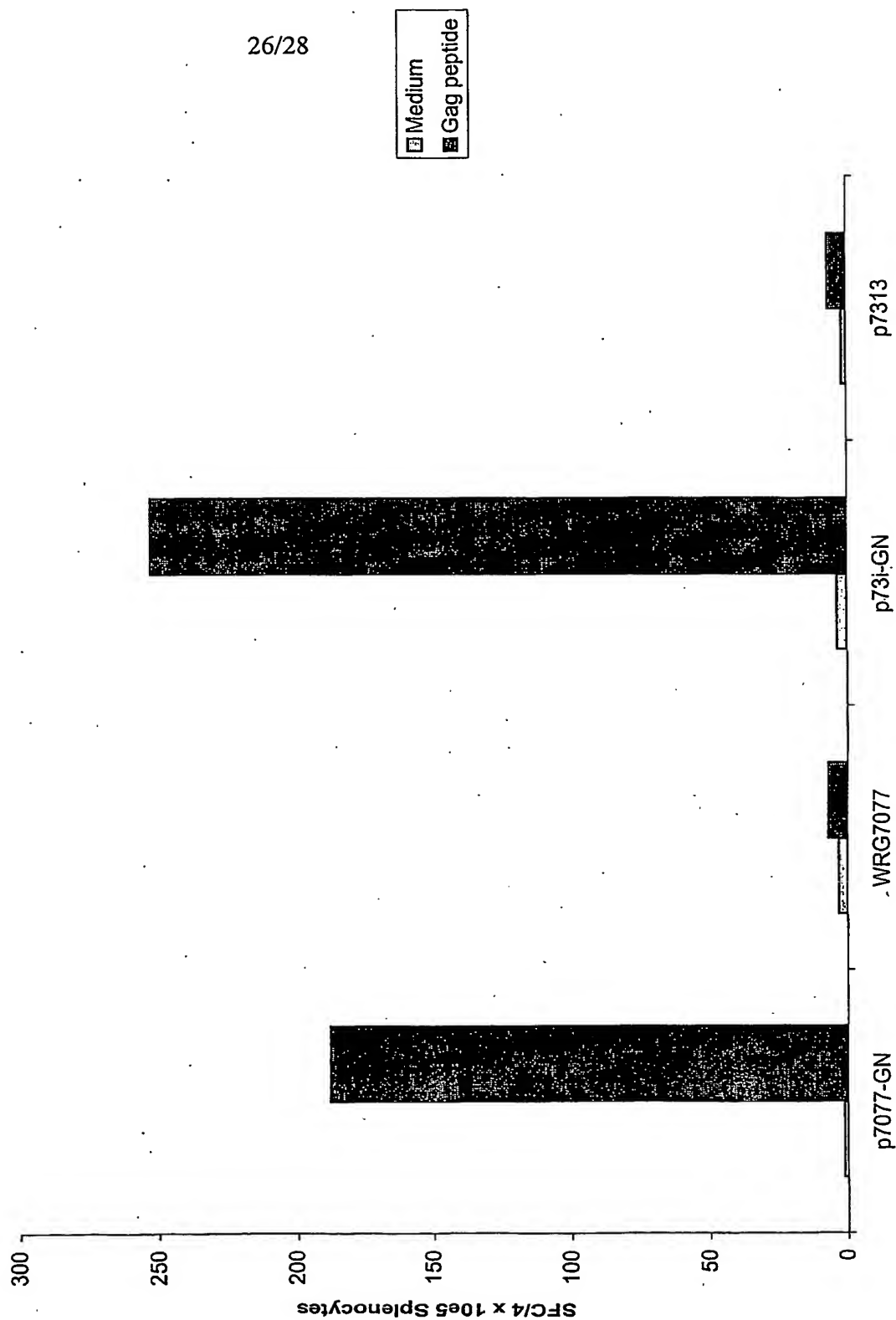


Figure 25

Responses to Nef peptide using IFN-gamma ELispot at 5 days post-boost

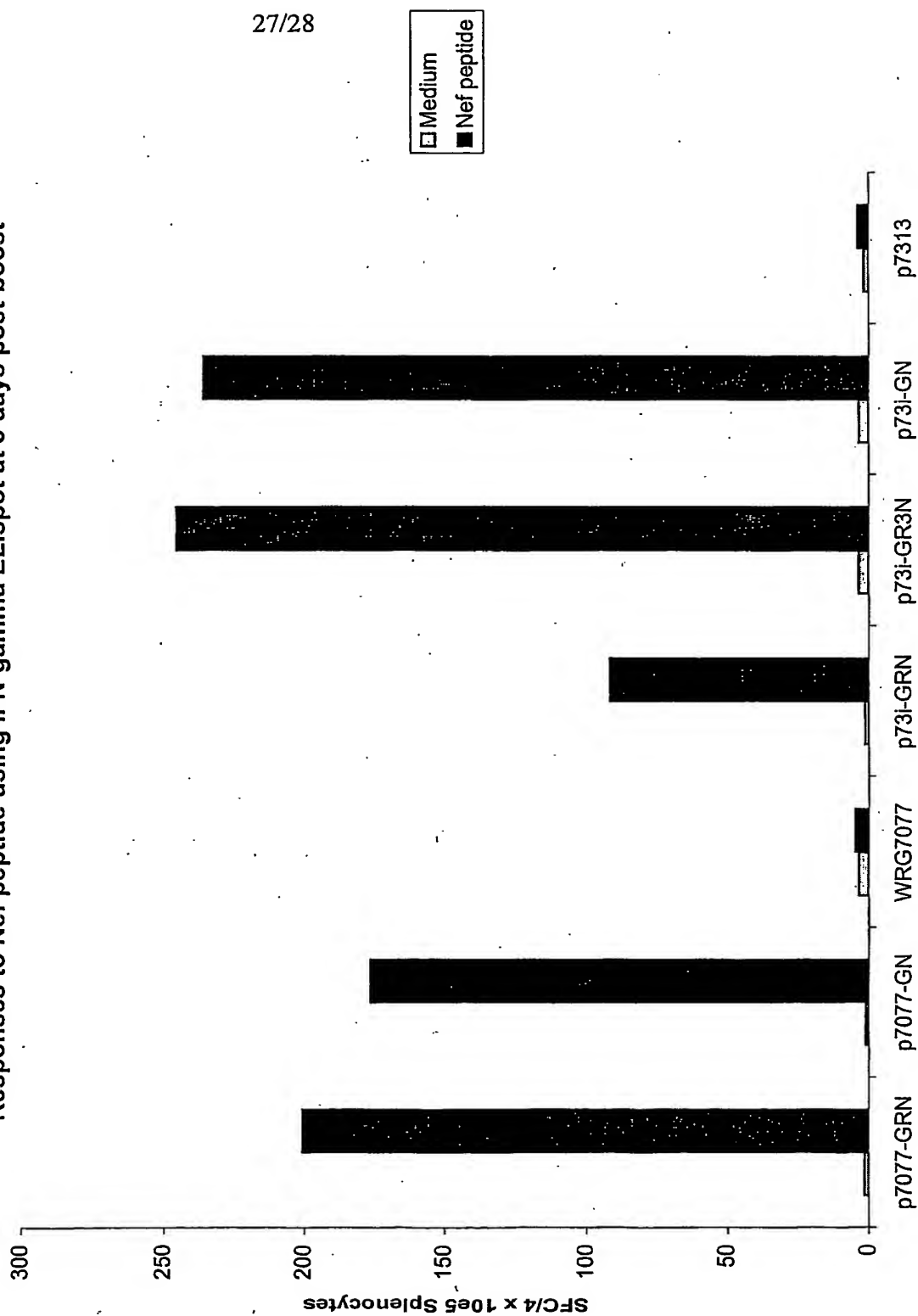
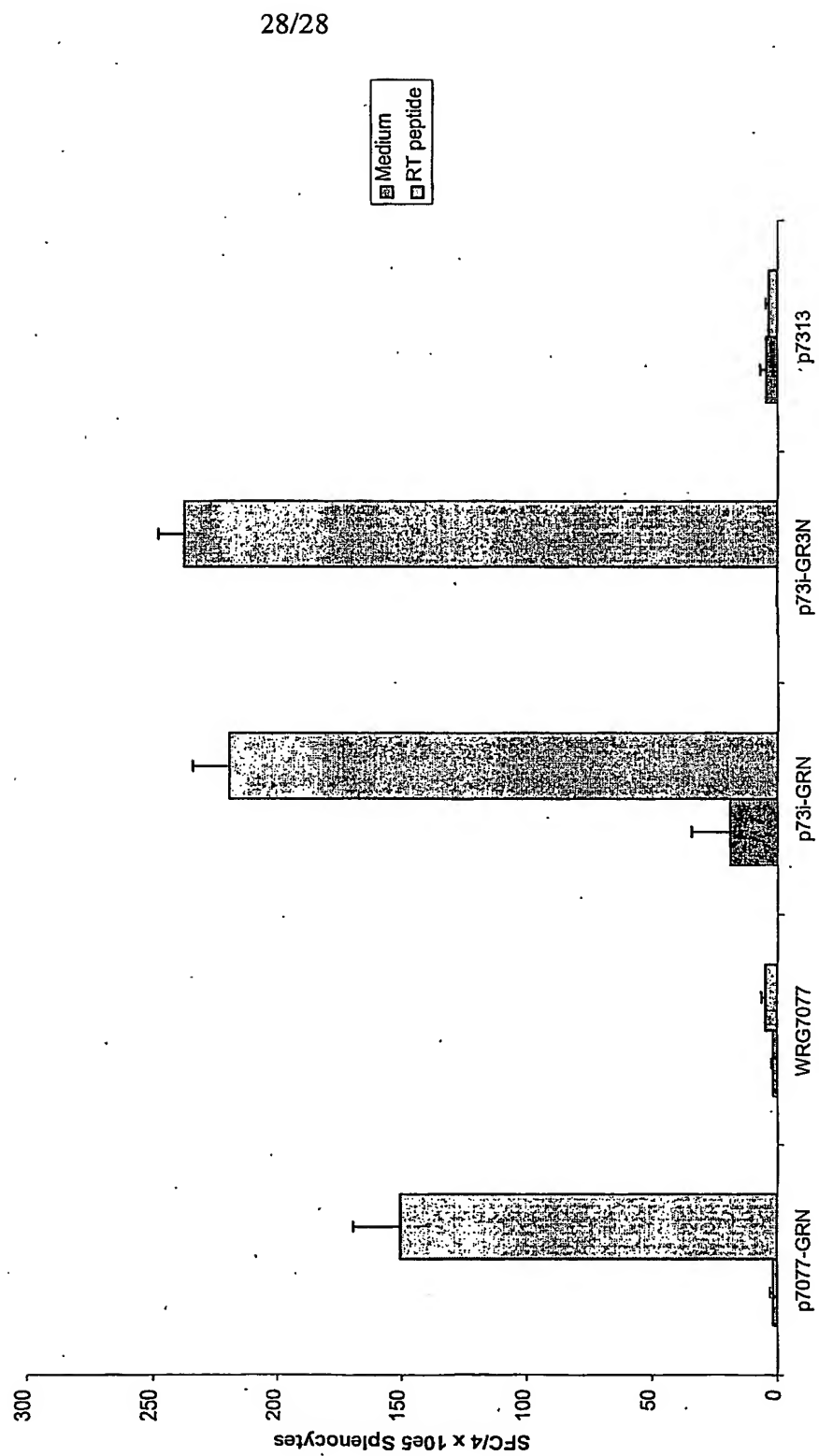


Figure 26

Responses to Rt peptide by IFN-gamma ELISpot at 5 days post-boost



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